To:

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

Commissioner

US Department of Commerce

United States Patent and Trademark

Office, PCT

2011 South Clark Place Room

CP2/5C24

Arlington, VA 22202

Date of mailing (day/month/year) 06 March 2001 (06.03.01)	ETATS-UNIS D'AMERIQUE in its capacity as elected Office		
International application No. PCT/EP00/06016	Applicant's or agent's file reference SJW/7096-PCT		
International filing date (day/month/year) 28 June 2000 (28.06.00)	Priority date (day/month/year) 08 July 1999 (08.07.99)		
Applicant			
GONZE, Michel, Henri, André et al			

1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	13 January 2001 (13.01.01)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO	Authorized officer		
34, ch min des Col mbettes 1211 Geneva 20, Switz rland	R. E. Stoffel		
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38		

PATENT COOPERATION TREATY

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY WILKINSON, Stephen John STEVENS HEWLETT STEVENS HEWLETT & PERKINS BRISTOL NOTIFICATION OF TRANSMITTAL OF 1 St. Augustine's Place THE INTERNATIONAL PRELIMINARY Bristol BS1 4UD **EXAMINATION REPORT GRANDE BRETAGNE** 2 2 OCT 2001 (PCT Rule 71.1) DIA ate of mailing day/month/year) 18.10.2001 FILE Applicant's or agent's file reference IMPORTANT NOTIFICATION SJW/7096-PCT International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/EP00/06016 28/06/2000 08/07/1999 Applicant CERESTAR HOLDING B.V. et al.

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

From the

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/

Authorized officer

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PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's	or an	ent's file reference					
SJW/7096-PCT		FOR FURTHER AC	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IP			nal [/IPEA/416]	
International application No.			International filing date (day/month	/year)	Priority date (day/month/year)	
PCT/EP	00/06	5016	28/06/2000			08/07/1999	
A23G3/0	00	ent Classification (IPC) or na	tional classification and IPC				
1. This i	intern s tran	etional preliminary exami smitted to the applicant a	nation report has been according to Article 36.	prepared	by this Inter	rnational Preliminary Examir	ning Authority
2. This i	REPO	ORT consists of a total of	4 sheets, including this	cover sh	eet.		
b	een a	eport is also accompanied amended and are the bas dule 70.16 and Section 60	is for this report and/or	sheets co	ontaining rec	n, claims and/or drawings wh ctifications made before this e PCT).	ich have Authority
These	e ann	exes consist of a total of	2 sheets.				
3. This r	eport	contains indications rela	ting to the following item	ıs:			
1	\boxtimes	Basis of the report					
H		Priority					
111		Non-establishment of or	pinion with regard to nov	elty, inve	entive step a	and industrial applicability	
IV		Lack of unity of inventio					
٧	\boxtimes	Reasoned statement un citations and explanatio	der Article 35(2) with re	gard to n	ovelty, inver	ntive step or industrial applic	ability;
VI		Certain documents cite					
VII	\boxtimes	Certain defects in the in	ternational application				
VIII		Certain observations on	the international applica	ation			
Date of sub	missic	on of the demand		Date of co	ompletion of th	nis report	
13/01/200	01			18.10.200)1		
	exami	address of the international ning authority:		Authorize	d officer		SPECIAL STATES
<u>)</u>	D-80 Tel.	pean Patent Office 1298 Munich +49 89 2399 - 0 Tx: 523656	epmu d	Weber,	G		Standard Company
	⊦ax:	+49 89 2399 - 4465		Telephon	No. +49 89 2	2399 8656	ALIS SOURCE ELECT

International application No. PCT/EP00/06016

I. Basis of the	report	
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1. With regard to the elements of the international application (Replacement sheets which have the receiving Office in response to an invitation under Article 14 are referred to in this report and are not annexed to this report since they do not contain amendments (Rules 70.16 and Description, pages:						is report as "originally file			
	1-20	0	as originally filed						
	Cla	ims, No.:							
	1-8		as received on	03/05/2001	with letter of	.30/04/2001			
2.	With	h regard to the lang	uage, all the elements	marked above were a	vailable or furnis	shed to this Authority in t	he		
			nternational application						
	The	ese elements were a	vailable or furnished to	this Authority in the fo	ollowing languag	je: , which is:			
		the language of a t	ranslation furnished for	the purposes of the in	nternational sea	rch (under Rule 23.1(b)).			
		the language of pu	blication of the internati	ional application (unde	er Rule 48.3(b)).				
		he language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).							
 With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing: 									
		contained in the int	ernational application in	n written form.					
		filed together with t	he international applica	ation in computer read	able form.				
☐ furnished subsequently to this Authority in written form.									
		furnished subseque	ently to this Authority in	orm.					
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.							
		The statement that listing has been fur		ed in computer readat	ole form is identi	cal to the written sequen	ce		
4.	The amendments have resulted in the cancellation of:								
		the description,	pages:				~··· ^-		
		the claims, "	Nos.:						
		the drawings,	sheets:						
5.			en established as if (son eyond the disclosure as		ts had not been	made, since they have t	een		

International application No. PCT/EP00/06016

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes:

Claims 1-8

No:

: Claims

Inventive step (IS)

Yes: Cla

Claims Claims

Industrial applicability (IA)

Yes:

Claims 1-8

No: Claims

2. Citations and explanations see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

ad V:

The subject-matter of the amended claims 1 to 8 can be regarded as meeting the requirements of Articles 33(2) and 33(3) PCT.

In particular the feature "c)" of claim 1 (which is also present in independent claim 5) has not been made available in the context of the other features of the amended claims in anyone of the available prior art documents.

That the claimed specific combination of ingredients provides the possibility of producing non-sticky, non-hygroscopic and non cariogenic hard candies cannot be regarded as being rendered obvious by the available prior art.

ad V:

The description should preferably be brought into line with the amended set of claims (Article 6 PCT).



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CLAIMS

- 1. A syrup (1) having a dry substance of from 60 to 80% consisting of a mixture of hydrogenated starch hydrolysate syrup (2) and isomalt powder or isomalt syrup (3) characterised in that:
 - a) the dry substance of the syrup (1) consists of from 14 to 25% w/w hydrogenated starch hydrolysate syrup (2) (dry substance) wherein the dry substance of said hydrogenated starch hydrolysate syrup (2) comprises between 22 and 55% w/w higher polyols, and
 - b) the dry substance of the syrup (1) consists of from 75 to 86% w/w isomalt, and
 - the dry substance of the syrup (1) consists of:

 7 to 52% w/w 6-O-α-D-glucopyranosyl-D-sorbitol (1,6 GPS)

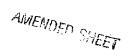
 24.5 to 52% w/w 1-O-α-D-glucopyranosyl-D-mannitol (1,1 GPM)

 0 to 52% w/w 1-O-α-D-glucopyranosyl-D-sorbitol (1,1 GPS)

 0 to 1.3% w/w sorbitol (DP₁)

 2.8 to 13.8% w/w maltitol (DP₂)
 - 2.8 to 13.6% w/w maintor (D1 2)
 - 1.5 to 4.2% w/w maltotriitol (DP₃)
 - 3.0 to 13.5% w/w higher polyols (DP_n)
- 2. A syrup according to claim 1 characterised in that said syrup has a dry substance of 70%.
- 3. A sugar-free non-cariogenic hard candy comprising a syrup according to claims 1 or 2.
- 4. A sugar-free non-cariogenic hard candy according to claim 3 characterised in that the mass viscosity is at least 25,000 mPa.s, and that the candy surface stickiness is below 180g (50% RH, 22-23°C) and the moisture pick-up (hygroscopicity at 70% RH and 25°C) after 14 days is below 1.5%.

- 5. A process for the production of a sugar-free non-cariogenic hard candy comprising the following steps:
 - preparing a syrup (1) having a dry substance of from 60 to 80% a) consisting of a mixture of hydrogenated starch hydrolysate syrup (2) and isomalt powder or isomalt syrup (3) characterised in that the dry substance of the syrup (1) consists of from 14 to 25% w/w hydrogenated starch hydrolysate syrup (2) (dry substance) wherein the dry substance of said hydrogenated starch hydrolysate syrup (2) comprises between 22 and 55% w/w higher polyols, and the dry substance of the syrup (1) consists of from 75 to 86% w/w isomalt, and the dry substance of the syrup (1) consists of 7 to 52% w/w 6-O-α-D-glucopyranosyl-D-sorbitol (1,6 GPS), 24.5 to 52% w/w 1-O-α-D-glucopyranosyl-D-mannitol (1,1 GPM), 0 to 52% w/w 1-O-α-glucopyranosyl-D-sorbitol (1,1 GPS), 0 to 1.3% w/w sorbitol (DP₁), 2.8 to 13.8% w/w maltitol (DP₂), 1.5 to 4.2% w/w maltotriitol (DP₃), 3.0 to 13.5% w/w higher polyols (DP_n),
 - b) cooking at a temperature between 145 and 170°C and low vacuum, and
 - c) shaping according to stamping or deposit method.
- 6. A process according to claim 5 characterised in that flavour and/or colouring matter is added during shaping.
- 7. A process according to claims 5 or 6 characterised in that the syrup comprises between 10 to 35% by weight water.
- 8. A process according to any one of claims 5 to 7 characterised in that the water content of the hard candy is less than 4% by weight, preferably less than 2% by weight or less, based upon the weight of the hard candy.



PATENT COOPERATION TREATY





INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

14

Applica	nt's or ag	ent's file reference	FOR FURTHER AC	TION	otification of Transmittal of International		
SJW/7	7096-P	CT	FOR FURTHER AC	Prelimi	nary Examination Report (Form PCT/IPEA/416)		
Internat	tional app	lication No.	International filing date (d	day/month/year)	Priority date (day/month/year)		
PCT/E	EP00/06	6016	28/06/2000		08/07/1999		
Internat A23G		ent Classification (IPC) or n	ational classification and IPC				
Applica	nt						
CERE	STAR	HOLDING B.V. et al.					
		ational preliminary exan smitted to the applicant		prepared by this	International Preliminary Examining Authority		
2. Th	is REPO	ORT consists of a total o	f 4 sheets, including this	cover sheet.			
⊠	been a	amended and are the ba		sheets containing	otion, claims and/or drawings which have g rectifications made before this Authority er the PCT).		
Th	ese ann	exes consist of a total o	f 2 sheets.				
3. Th	iis report	contains indications rel	ating to the following item	ns:			
	II 🗆	•					
	III 🗆	Non-establishment of	opinion with regard to no	velty, inventive st	tep and industrial applicability		
ı	ıv 🗆	Lack of unity of inventi					
	V ⊠		under Article 35(2) with re ions suporting such state		inventive step or industrial applicability;		
•	vı 🗆	Certain documents cit	ted				
٧			international application				
V	'III	Certain observations of	on the international applic	ation			
Date of	submissi	on of the demand		Date of completion	n of this report		
13/01/	2001			18.10.2001			
	ary exam	g address of the internation ining authority:	al	Authorized officer	LEGALISONES PARTOLICAS, THE STATE OF THE STA		
Ò	D-8	opean Patent Office 0298 Munich +49 89 2399 - 0 Tx: 52365	i6 enmu d	Weber, G	Assessed and a second s		
		+49 69 2399 - U 1X. 52363 +49 89 2399 - 4465	o opina a		**************************************		

Telephone No. +49 89 2399 8656

International application No. PCT/EP00/06016

	P.o.	sis of th report							
		•							
1.	the and	With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): Description, pages:							
	1-2	0	as originally filed						
	Cla	nims, No.:							
	1-8		as received on	03/05/2001	with letter of	30/04/2001			
2.		With regard to the language , all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.							
	These elements were available or furnished to this Authority in the following language: , which is:								
		the language of a	translation furnished for the	e purposes of the i	nternational searcl	n (under Rule 23.1(b)).			
		the language of publication of the international application (under Rule 48.3(b)).							
		the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).							
3.		With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:							
		contained in the in	ternational application in w	ritten form.					
		☐ filed together with the international application in computer readable form.							
		☐ furnished subsequently to this Authority in written form.							
		furnished subsequently to this Authority in computer readable form.							
		☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.							
		The statement that listing has been full	t the information recorded in	in computer readat	ole form is identica	I to the written sequence			
4.	The	The amendments have resulted in the cancellation of:							
		the description,	pages:						
		the claims,	Nos.:						
		the drawings,	sheets:						

5.

This report has been established as if (some of) the amendments had not been made, since they have been

considered to go beyond the disclosure as filed (Rule 70.2(c)):

Form PCT/IPEA/409 (Boxes I-VIII, Sheet 1) (July 1998)

International application No. PCT/EP00/06016

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes:

Claims 1-8

No: Claims

Inventive step (IS)

Yes:

Claims 1-8

No: Claims

Industrial applicability (IA)

Yes: Claims 1-8

No: Claims

2. Citations and explanations see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

INTERNATIONAL PRELIMINARY

International application No. PCT/EP00/06016

EXAMINATION REPORT - SEPARATE SHEET

ad V:

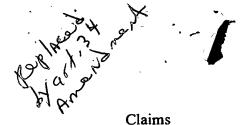
The subject-matter of the amended claims 1 to 8 can be regarded as meeting the requirements of Articles 33(2) and 33(3) PCT.

In particular the feature "c)" of claim 1 (which is also present in independent claim 5) has not been made available in the context of the other features of the amended claims in anyone of the available prior art documents.

That the claimed specific combination of ingredients provides the possibility of producing non-sticky, non-hygroscopic and non cariogenic hard candies cannot be regarded as being rendered obvious by the available prior art.

ad VII:

The description should preferably be brought into line with the amended set of claims (Article 6 PCT).



- 1. A syrup at dry substance between 60% to 80%, preferably at dry substance of about 70% consisting of a mixture of hydrogenated starch hydrolysate syrup and isomalt powder or isomalt syrup characterised in that the dry substance of the syrup comprises 86% w/w isomalt, preferably between 85% w/w and 79% w/w isomalt, more preferably 75% w/w isomalt, and the dry substance of the hydrogenated starch hydrolysate syrup comprises between 22% w/w and 55% w/w higher polyols, preferably between 25% w/w and 50% w/w higher polyols.
- 2. A syrup according to claim 1 characterised in that the dry base of the syrup consists of between:

7 % w/w to 52% w/w 6-O-α-D-glucopyranosyl-D-sorbitol (1,6 GPS), 24.5% w/w to 52% w/w 1-O-α-D-glucopyranosyl-D-mannitol (1,1 GPM).

0% w/w to 52% w/w 1-O-α-D-glucopyranosyl-D-sorbitol (1,1 GPS),

0% w/w to 1.3% w/w sorbitol (DP1),

2.8% w/w to 13.8% w/w maltitol (DP₂),

1.5% w/w to 4.2% w/w maltotriitol (DP₃),

3.0% w/w to 13.5% w/w higher polyols (DP_n).

- 3. A sugar-free non-cariogenic hard candy comprising a syrup according to claim 1 or 2.
- 4. A sugar-free non-cariogenic hard candy according to claim 3 characterised in that the mass viscosity is at least 25,000 mPa.s, and that the candy surface stickiness is below 180 g (50% RH, 22-23°C) and the moisture pick-up (hygroscopicity at 70% R.H and 25°C) after 14 days is below 1.5%.
- 5. A process for the production of a sugar-free non-cariogenic hard candy comprising the following steps:
 - a) preparing a syrup at dry substance between 60% to 80% consisting of a mixture of hydrogenated starch hydrolysate syrup and isomalt powder or

isomalt syrup characterised in that the dry substance of the syrup comprises 86% w/w isomalt, preferably between 85% w/w and 79% w/w isomalt, more preferably 75% w/w isomalt, and the dry substance of the hydrogenated starch hydrolysate syrup comprises between 22% w/w and 55% w/w higher polyols, preferably between 25% w/w and 50% w/w higher polyols,

- b) cooking at a temperature between 145°C and 170°C and low vacuum, and
- c) shaping according to stamping or deposit method.
- 6. A process according to claim 5 characterised in that flavour and/or colouring matter is added during shaping.
- 7. A process according to claim 5 or 6 characterised in that the syrup comprises between 10 to 35% by weight water.
- 8. A process according to anyone of claims 5 to 7 characterised in that the water content of the hard candy is less than 4% by weight, preferably less than 2% by weight or less, based upon the weight of the hard candy.